

VERT® Newsletter 03/2014

Sino-Swiss Particulate Matter/ Black Carbon Reduction Program

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China is gradually tightening its emission regulation. As of the National Clean Air Initiative Plan PM2.5 concentrations need to be reduced by 10% by 2017. From January 2015, new Heavy Duty Vehicles in China will need to have a wall flow DPF.

Already back in September 2011, China and Switzerland authorities (MEP of China and SDC of Switzerland supported by VERT® started the Sino-Swiss program Black Carbon Emission of Mobile Sources (BCEMS). The retrofit pilot test program comprises: 10 coaches in Nanjing, 10 city buses in Xiamen, 11 construction machines in Beijing that were retrofitted with VERT® certified DPFs. In parallel, lab tests at Xiamen and Jinan were carried out. Based on these experiences a national diesel vehicle aftertreatment guideline is drafted.

When it comes to emission reduction meanwhile, many countries all over the world (for example Chile, Colombia, Israel, Iran) rely on the Swiss VERT® association as a consulting agency. Since China with its massive economical growth and huge population faces more and more environmental problems, again the VERT® association was asked to support a DPF evaluation program with the overall aim to draft a national Diesel vehicle aftertreatment guideline.

Once the sources are identified, the best available technology has to be determined to bring down the emissions. In the long run, fuel quality and regulations for new vehicles are important tools, but for fast success, only retrofit programs can eliminate the emissions of in use vehicles. In such a case, VERT® always insists on a strictly neutral and purely by environmental, physical and technical facts driven program. Besides real driving emissions and real fuel quality, the real operating conditions have to be measured in order to

decide for the best available technology. And hence, in August and September of last year dataloggers (25 on road in Nanjing and Xiamen and 10 off road in Beijing) have been installed. Based on this information, then vehicles were allocated and retrofitted with the suitable DPF system. It has to be decided whether, active, passive, fuel born catalysts or catalyst coating technologies need to be implemented. Even Diesel qualities with very high sulphur contents can be taken into account and VERT® approved technologies can be chosen, that can overcome such hurdles (VERT® study in SAE 2011-01-0605).

Checklist 3.1.

Test phase: 3.1 Selection of Test Vehicles 车辆选择

Subject: Vehicle Description and Evaluation 车辆描述和评价

Test vehicle name: 测试车辆: 厦 58330	Test fleet code: XIAM07
Contacts	
Operator company: 所属公司: contact person / email / mobile phone: 联系人/ 电话/ 移动电话	Xiamen Xunanda Company, Chenyonglai 13860160025 1269666672@qq.com
Operator company: 所属公司: contact person / email / mobile phone: 联系人/ 电话/ 移动电话	Xiamen Xunanda Company, Chenyonglai 13860160025 1269666672@qq.com
Operation site: 检测地点	
Type of usage: 用途	
Vehicle man: 司机	
Vehicle use: 主要用途	
Engine man: 发动机	
Engine ems: 排放标准	
Engine class: 发动机类别	
Engine prog: 发动机型号	
Rated power: 额定功率	
Fuel injector: 燃油喷射器	
Turbocharg: 涡轮增压器	
EGR system: 废气再循环系统	
Fuel supplier: 燃油供应商	
Fuel quality: 燃油品质	



Typical bus used in the Beijing,
Nanjing and Xiamen, selected for
the DPF evaluation



As a result, in Nanjing started a DPF retrofit program with a labeling system for the vehicles. Yellow labeled vehicles face driving restrictions in certain areas. Only vehicles **with VERT® approved filter technologies** get a green label and are allowed to drive within these areas. More than 1000 vehicles are already identified to be retrofitted (for VERT® approved filters see VERT® filter list at www.vert-dpf.eu).



Training and practical consulting is an important part of VERT®'s support.



At the Sino-Swiss Zhenjiang Ecological Industrial Park since July-2, 2014 DPF systems from three different suppliers can be seen in an exhibition.

Of course, such large scale projects do also face problems and setbacks. Especially, poor maintenance of old vehicles, often one of the reasons for the environmental problems, needs to be avoided. Training of the operators, the service personnel and the legislative bodies is therefore one important part of the support, the VERT Association can deliver.

For more information, please ask us:
VERT® Association, Tel.: +41 565442 1818, www.vert-dpf.eu or directly fill in the enclosed form and **become a member of the VERT® Association.**



March 2014

To the President of
VERT[®]-Association
c/o JCA Treuhand AG
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CH – 5200 Brugg

Application Form For VERT[®] Association Membership

We herewith apply for becoming a full member of the VERT[®] association. The yearly membership fee is 7,500 CHF. Please include the following contact person into the VERT database for newsletters about emission reduction, world wide aftertreatment projects and everything related to verification of emission reduction technologies.

Yours sincerely,

company name:

contact person:

address:

phone:

e-mail:

